



2020 Annual Update of the

National Income and Product Accounts

Supplemental Tables

Released July 30, 2020



Table A1. Revisions to Real GDP, Expanded Detail, Over the Period 2014–2019

[Billions of chained dollars]

			Previously hained (20			Revised chained (2012) dollars					ion in inge
Line	Real GDP and its major components			Chan: 2014 -	ge for - 2019			Chang 2014 -	ge for - 2019		Percent change
	major components	2014	2019	Dollar	Percent (annual rate)	2014	2019	Dollar	Percent (annual rate)	Dollar	(percent- age point)
1	Gross domestic product	16,912.0	19,073.1	2,161.0	2.4	16,912.0	19,091.7	2,179.6	2.5	18.6	0.1
2	Personal consumption expenditures	11,497.4	13,280.1	1,782.7	2.9	11,497.4	13,240.2	1,742.8	2.9	-39.8	0.0
3	Goods	3,905.1	4,754.6	849.4	4.0	3,905.1	4,760.5	855.3	4.0	5.9	0.0
4	Durable goods	1,301.6	1,766.4	464.8	6.3	1,301.6	1,774.6	473.0	6.4	8.2	0.1
5	Motor vehicles and parts	439.4	542.7	103.2	4.3	439.4	532.4	93.0	3.9	-10.3	-0.4
6	Furnishings and durable household equipment	291.6	405.7	114.1	6.8	291.6	410.1	118.5	7.1	4.4	0.3
7	Recreational goods and vehicles	364.7	569.3	204.6	9.3	364.7	590.6	225.9	10.1	21.3	0.8
8	Other durable goods	206.4	263.4	57.0	5.0	206.4	260.6	54.2	4.8	-2.8	-0.2
9	Nondurable goods	2,605.3	3,002.9	397.6	2.9	2,605.3	3,001.5	396.2	2.9	-1.4	0.0
10	Food and beverages purchased for off-premises consumption	871.4	988.4	117.1	2.6	871.4	982.0	110.7	2.4	-6.4	-0.2
11	Clothing and footwear	356.1	407.0	50.9	2.7	356.1	412.0	55.9	3.0	5.0	0.3
12	Gasoline and other energy goods	430.0	448.6	18.7	0.9	430.0	444.9	15.0	0.7	-3.7	-0.2
13	Other nondurable goods	947.4	1,142.1	194.7	3.8	947.4	1,145.0	197.6	3.9	2.9	0.1
14	Services	7,594.9	8,562.9	968.0	2.4	7,594.9	8,520.5	925.6	2.3	-42.4	-0.1
15	Household consumption expenditures (for services)	7,249.6	8,201.2	951.6	2.5	7,249.6	8,167.8	918.2	2.4	-33.5	-0.1
16	Housing and utilities	2,039.9	2,184.3	144.3	1.4	2,039.9	2,193.0	153.1	1.5	8.7	0.1
17	Health care	1,892.8	2,249.3	356.5	3.5	1,892.8	2,232.9	340.1	3.4	-16.4	-0.1
18	Transportation services	374.3	438.9	64.6	3.2	374.3	442.5	68.1	3.4	3.5	0.2
19	Recreation services	450.5	509.8	59.3	2.5	450.5	503.2	52.7	2.2	-6.6	-0.3
20	Food services and accommodations	741.3	858.2	116.9	3.0	741.3	842.2	100.9	2.6	-16.0	-0.4
21	Financial services and insurance	817.9	856.7	38.7	0.9	817.9	857.9	39.9	1.0	1.2	0.1
22	Other services	934.4	1,123.8	189.4	3.8	934.4	1,114.4	180.0	3.6	-9.3	-0.2
23	Final consumption expenditures of nonprofit institutions serving households (NPISHs)	345.3	362.4	17.1	1.0	345.3	354.0	8.6	0.5	-8.5	-0.5
24	Gross output of nonprofit institutions	1,266.2	1,434.0	167.8	2.5	1,266.2	1,418.3	152.1	2.3	-15.7	-0.2
25	Less: Receipts from sales of goods and services by nonprofit institutions	920.9	1,072.9	152.0	3.1	920.9	1,066.2	145.3	3.0	-6.7	-0.1
26	Gross private domestic investment	2,959.2	3,421.3	462.1	2.9	2,959.2	3,442.6	483.4	3.1	21.2	0.2
27	Fixed investment	2,869.2	3,335.8	466.6	3.1	2,869.2	3,371.7	502.5	3.3	35.9	0.2
28	Nonresidential	2,365.3	2,748.1	382.8	3.0	2,365.3	2,776.8	411.5	3.3	28.7	0.3
29	Structures	538.8	517.8	-21.0	-0.8	538.8	547.7	8.9	0.3	29.9	1.1



Table A1. Revisions to Real GDP, Expanded Detail, Over the Period 2014–2019

[Billions of chained dollars]

			Previously hained (20			Revis	sed chaine	d (2012) d	ollars		ion in inge
Line	Real GDP and its major components			Chan	ge for - 2019				ge for - 2019		Percent change
	major components	2014	2019	Dollar	Percent (annual rate)	2014	2019	Dollar	Percent (annual rate)	Dollar	(percent- age point)
30	Equipment	1,101.1	1,271.3	170.2	2.9	1,101.1	1,267.7	166.6	2.9	-3.6	0.0
31	Information processing equipment	370.2	517.9	147.6	6.9	370.2	493.9	123.6	5.9	-24.0	-1.0
32	Computers and peripheral equipment	102.9	129.3	26.3	4.7	102.9	130.7	27.8	4.9	1.5	0.2
33	Other	267.7	391.0	123.3	7.9	267.7	363.8	96.1	6.3	-27.2	-1.6
34	Industrial equipment	216.5	241.1	24.6	2.2	216.5	249.1	32.6	2.8	8.0	0.6
35	Transportation equipment	265.0	277.2	12.2	0.9	265.0	285.7	20.7	1.5	8.5	0.6
36	Other equipment	248.9	251.3	2.4	0.2	248.9	250.1	1.3	0.1	-1.2	-0.1
37	Intellectual property products	724.8	969.2	244.5	6.0	724.8	968.2	243.4	6.0	-1.1	0.0
38	Software	305.3	455.6	150.3	8.3	305.3	449.3	144.0	8.0	-6.4	-0.3
39	Research and development	346.9	434.5	87.6	4.6	346.9	440.5	93.6	4.9	6.0	0.3
40	Entertainment, literary, and artistic originals	72.7	85.9	13.2	3.4	72.7	83.7	11.0	2.9	-2.2	-0.5
41	Residential	504.1	593.8	89.7	3.3	504.1	601.5	97.4	3.6	7.7	0.3
42	Change in private inventories	86.3	67.0	-19.3		86.3	48.5	-37.8		-18.4	
43	Farm	-3.5	-11.1	-7.5		-3.5	-16.9	-13.4		-5.8	
44	Nonfarm	90.1	75.3	-14.8		90.1	62.2	-27.9		-13.0	
45	Net exports of goods and services	-577.2	-953.9	-376.6		-577.2	-917.6	-340.4		36.2	
46	Exports	2,365.3	2,532.9	167.6	1.4	2,365.3	2,546.6	181.3	1.5	13.7	0.1
47	Goods	1,642.7	1,786.2	143.5	1.7	1,642.7	1,782.5	139.8	1.6	-3.7	-0.1
48	Services	722.7	752.5	29.8	0.8	722.7	767.6	44.9	1.2	15.1	0.4
49	Imports	2,942.5	3,486.8	544.3	3.5	2,942.5	3,464.2	521.7	3.3	-22.6	-0.2
50	Goods	2,472.2	2,923.4	451.2	3.4	2,472.2	2,923.4	451.2	3.4	0.0	0.0
51	Services	471.0	562.4	91.3	3.6	471.0	543.1	72.1	2.9	-19.3	-0.7
52	Government consumption expenditures and gross investment	3,033.4	3,299.0	265.6	1.7	3,033.4	3,303.9	270.4	1.7	4.8	0.0
53	Federal	1,183.8	1,275.5	91.7	1.5	1,183.8	1,277.2	93.4	1.5	1.7	0.0
54	National defense	728.4	773.4	45.0	1.2	728.4	780.2	51.7	1.4	6.8	0.2
55	Consumption expenditures	586.0	613.7	27.8	0.9	586.0	613.8	27.8	0.9	0.1	0.0
56	Gross investment	142.4	159.9	17.5	2.3	142.4	166.9	24.4	3.2	7.0	0.9
57	Nondefense	455.2	502.0	46.8	2.0	455.2	497.1	41.9	1.8	-4.9	-0.2
58	Consumption expenditures	339.0	373.2	34.1	1.9	339.0	362.8	23.8	1.4	-10.3	-0.5
59	Gross investment	116.2	128.9	12.7	2.1	116.2	134.6	18.4	3.0	5.7	0.9
60	State and local	1,848.6	2,022.3	173.7	1.8	1,848.6	2,025.5	176.9	1.8	3.2	0.0
61	Consumption expenditures	1,523.1	1,654.6	131.5	1.7	1,523.1	1,653.3	130.2	1.7	-1.4 4.6	0.0
62	Gross investment	325.5	367.6	42.1 Addenda	2.5	325.5	372.2	46.8	2.7	4.6	0.2
63	Gross domestic income ¹	17.191.1	18,985.6	1,794.6	2.0	17.188.6	19,080.2	1,891.6	2.1	97.0	0.1
64	Average of GDP and GDI ²		19,029.3	1,977.8	2.2	1	19,085.9	2,035.6	2.3	57.8	0.1
65	Final sales of domestic product	16,822.3		2,165.6	2.5		19,021.1	2,198.8	2.5	33.2	0.0
66	Gross domestic purchases		19,994.6	2,506.9	2.7	1	19,981.0	2,493.3	2.7	-13.6	0.0
67	Gross national product	1	19,351.3	2,204.8	2.4	1	19,338.4	2,191.9	2.4	-12.9	0.0
68	Disposable personal income ³		14,978.5	2,134.3	3.1		14,882.5	2,038.8	3.0	-95.5	-0.1

- ${\bf 1.} \ \ {\bf Gross\ domestic\ income\ deflated\ by\ the\ implicit\ price\ deflator\ for\ gross\ domestic\ product.$
- 2. The arithmetic average of gross domestic product and of gross domestic income, deflated by the implicit price deflator for GDP.
- 3. Disposable personal income deflated by the implicit price deflator for personal consumption expenditures.



Table A2. Revisions to Real GDP, Expanded Detail, Over the Period 2014Q4 – 2015Q4 [Billions of chained dollars]

			Previously hained (20			Revis	sed chaine	d (2012) d	ollars		ion in nge
Line	Real GDP and its major components	2014	2015		ge for	2014	2015	Chang 2014Q4 -			Percent change
	major components	2014 Q4	Q4	Dollar	Percent (annual rate)	Q4	Q4	Dollar	Percent (annual rate)	Dollar	(percent -age points)
1	Gross domestic product	17,143.0	17,468.9	325.9	1.9	17,143.0	17,514.1	371.0	2.2	45.2	0.3
2	Personal consumption expenditures	11,695.0	12,030.2	335.3	2.9	11,695.0	12,055.4	360.4	3.1	25.1	0.2
3	Goods	3,984.4	4,133.7	149.4	3.7	3,984.4	4,136.5	152.1	3.8	2.7	0.1
4	Durable goods	1,343.3	1,421.1	77.8	5.8	1,343.3	1,423.3	80.0	6.0	2.2	0.2
5	Motor vehicles and parts	452.1	469.3	17.2	3.8	452.1	471.7	19.6	4.3	2.5	0.5
6	Furnishings and durable household equipment	302.0	328.3	26.3	8.7	302.0	329.1	27.1	9.0	0.7	0.3
7	Recreational goods and vehicles	376.3	398.4	22.1	5.9	376.3	397.3	21.0	5.6	-1.1	-0.3
8	Other durable goods	213.5	226.7	13.2	6.2	213.5	226.5	13.0	6.1	-0.2	-0.1
9	Nondurable goods	2,643.6	2,716.4	72.8	2.8	2,643.6	2,716.9	73.4	2.8	0.6	0.0
10	Food and beverages purchased for off-premises consumption	876.3	886.5	10.2	1.2	876.3	887.7	11.4	1.3	1.2	0.1
11	Clothing and footwear	363.7	370.4	6.7	1.8	363.7	370.6	6.9	1.9	0.2	0.1
12	Gasoline and other energy goods	437.2	451.5	14.2	3.3	437.2	449.8	12.6	2.9	-1.6	-0.4
13	Other nondurable goods	966.2	1,008.2	42.0	4.3	966.2	1,008.4	42.3	4.4	0.3	0.1
14	Services	7,713.9	7,903.1	189.2	2.5	7,713.9	7,924.9	211.0	2.7	21.9	0.2
15	Household consumption expenditures (for services)	7,372.2	7,555.1	183.0	2.5	7,372.2	7,575.5	203.3	2.8	20.4	0.3
16	Housing and utilities	2,057.6	2,094.4	36.7	1.8	2,057.6	2,097.5	39.9	1.9	3.2	0.1
17	Health care	1,945.2	2,013.3	68.1	3.5	1,945.2	2,016.8	71.6	3.7	3.4	0.2
18	Transportation services	378.5	394.4	15.9	4.2	378.5	394.2	15.7	4.1	-0.2	-0.1
19	Recreation services	458.1	478.6	20.5	4.5	458.1	478.3	20.2	4.4	-0.4	-0.1
20	Food services and accommodations	756.0	782.6	26.6	3.5	756.0	783.2	27.2	3.6	0.6	0.1
21	Financial services and insurance	825.4	833.8	8.4	1.0	825.4	837.5	12.1	1.5	3.7	0.5
22	Other services	953.8	962.5	8.7	0.9	953.8	972.4	18.6	2.0	9.9	1.1
23	Final consumption expenditures of nonprofit institutions serving households (NPISHs)	341.9	348.1	6.2	1.8	341.9	349.6	7.7	2.2	1.5	0.4
24	Gross output of nonprofit institutions	1,290.3	1,311.5	21.2	1.6	1,290.3	1,312.4	22.1	1.7	0.9	0.1
25	Less: Receipts from sales of goods and services by nonprofit institutions	948.7	963.7	15.0	1.6	948.7	963.0	14.3	1.5	-0.6	-0.1
26	Gross private domestic investment	3,021.9	3,067.1	45.2	1.5	3,021.9	3,092.7	70.9	2.3	25.6	0.8
27	Fixed investment	2,941.2	2,971.9	30.7	1.0	2,941.2	2,991.8	50.6	1.7	19.9	0.7
28	Nonresidential	2,415.5	2,393.2	-22.2	-0.9	2,415.5	2,412.8	-2.6	-0.1	19.6	0.8
29	Structures	551.0	491.1	-59.8	-10.9	551.0	510.6	-40.4	-7.3	19.4	3.6



Table A2. Revisions to Real GDP, Expanded Detail, Over the Period 2014Q4 – 2015Q4 [Billions of chained dollars]

			Previously chained (20			Revis	sed chaine	d (2012) d	ollars		ion in inge
Line	Real GDP and its major components	2014	2015	Chang 2014Q4 -	ge for - 2015Q4	2014	2015	Chang 2014Q4 -	ge for - 2015Q4		Percent change
	major components	Q4	Q4	Dollar	Percent (annual rate)	Q4	Q4	Dollar	Percent (annual rate)	Dollar	(percent -age points)
30	Equipment	1,116.9	1,137.9	21.0	1.9	1,116.9	1,133.6	16.7	1.5	-4.3	-0.4
31	Information processing equipment	379.3	405.7	26.4	7.0	379.3	403.8	24.5	6.5	-1.9	-0.5
32	Computers and peripheral equipment	104.7	102.2	-2.5	-2.4	104.7	101.3	-3.4	-3.2	-0.9	-0.8
33	Other	275.1	305.2	30.1	10.9	275.1	304.3	29.2	10.6	-1.0	-0.3
34	Industrial equipment	215.3	217.6	2.3	1.0	215.3	217.4	2.1	1.0	-0.2	0.0
35	Transportation equipment	271.6	292.1	20.5	7.6	271.6	289.4	17.8	6.6	-2.7	-1.0
36	Other equipment	250.5	224.7	-25.8	-10.3	250.5	225.2	-25.2	-10.1	0.5	0.2
37	Intellectual property products	746.6	768.3	21.7	2.9	746.6	771.3	24.7	3.3	3.0	0.4
38	Software	311.9	326.2	14.3	4.6	311.9	327.1	15.2	4.9	0.9	0.3
39	Research and development	360.2	366.0	5.8	1.6	360.2	368.1	7.9	2.2	2.1	0.6
40	Entertainment, literary, and artistic originals	74.4	76.3	1.9	2.6	74.4	76.3	1.9	2.6	0.0	0.0
41	Residential	525.2	573.0	47.9	9.1	525.2	573.6	48.5	9.2	0.6	0.1
42	Change in private inventories	82.0	86.0	4.0		82.0	91.4	9.4		5.4	
43	Farm	-4.4	0.2	4.6		-4.4	-1.2	3.2		-1.4	
44	Nonfarm	87.0	85.1	-1.9		87.0	91.8	4.9		6.8	
45	Net exports of goods and services	-617.9	-752.8	-134.9		-617.9	-754.5	-136.6		-1.7	
46	Exports	2,400.3	2,363.2	-37.1	-1.5	2,400.3	2,363.5	-36.8	-1.5	0.3	0.0
47	Goods	1,672.2	1,620.8	-51.4	-3.1	1,672.2	1,624.1	-48.1	-2.9	3.3	0.2
48	Services	728.7	740.3	11.6	1.6	728.7	737.7	9.1	1.2	-2.6	-0.4
49	Imports	3,018.2	3,116.0	97.8	3.2	3,018.2	3,118.0	99.8	3.3	2.0	0.1
50	Goods	2,539.5	2,621.5	81.9	3.2	2,539.5	2,620.2	80.7	3.2	-1.3	0.0
51	Services	479.8	495.5	15.7	3.3	479.8	498.2	18.4	3.8	2.7	0.5
52	Government consumption expenditures and gross investment	3,043.4	3,113.6	70.2	2.3	3,043.4	3,110.0	66.6	2.2	-3.6	-0.1
53	Federal	1,175.5	1,188.6	13.1	1.1	1,175.5	1,190.5	15.0	1.3	1.8	0.2
54	National defense Consumption expenditures	716.6 574.2	713.9 572.2	-2.7	-0.4 -0.3	716.6 574.2	714.0 572.1	-2.6	-0.4 -0.4	0.1 0.0	0.0 -0.1
55 56	Gross investment	142.4	141.7	-2.0 -0.7	-0.5	142.4	141.8	-2.0 -0.6	-0.4 -0.4	0.0	0.1
57	Nondefense	458.6	474.2	15.6	3.4	458.6	476.0	17.4	3.8	1.8	0.1
58	Consumption expenditures	340.7	354.5	13.8	4.0	340.7	353.4	12.7	3.7	-1.1	-0.3
59	Gross investment	117.9	119.7	1.8	1.5	117.9	122.6	4.7	4.0	2.9	2.5
60	State and local	1,866.6	1,923.3	56.7	3.0	1,866.6	1,918.0	51.4	2.8	-5.3	-0.2
61	Consumption expenditures	1,535.2	1,586.4	51.2	3.3	1,535.2	1,579.3	44.1	2.9	-7.1	-0.4
62	Gross investment	331.4	336.8	5.4	1.6	331.4	338.7	7.3	2.2	1.8	0.6
				Addenda							
63	Gross domestic income ¹		17,701.9	231.0	1.3	17,467.3	17,704.5	237.2	1.4	6.2	0.1
64	Average of GDP and GDI ²		17,585.4	278.4	1.6	1	17,609.3	304.1	1.8	25.7	0.2
65	Final sales of domestic product	1	17,373.8	311.0	1.8	17,062.8	17,413.3	350.5	2.1	39.5	0.3
66	Gross domestic purchases		18,207.7	450.5	2.5	17,757.1	i	497.7	2.8	47.2	0.3
67	Gross national product	i	17,699.5	335.7	1.9	17,363.8		377.5	2.2	41.8	0.3
68	Disposable personal income ³	13,089.7	13,478.6	388.9	3.0	13,089.1	13,490.5	401.4	3.1	12.5	0.1

- 1. Gross domestic income deflated by the implicit price deflator for gross domestic product.
- 2. The arithmetic average of gross domestic product and of gross domestic income, deflated by the implicit price deflator for GDP.
- 3. Disposable personal income deflated by the implicit price deflator for personal consumption expenditures.



Table A3. Revisions to Real GDP, Expanded Detail, Over the Period 2015Q4 – 2016Q4 [Billions of chained dollars]

			Previously hained (20			Revis	sed chaine	d (2012) d	ollars		ion in inge
Line	Real GDP and its major components	2045	2016	Chang 2015Q4 -	ge for - 2016Q4	2045	2046		ge for - 2016Q4		Percent change
	major components	2015 Q4	2016 Q4	Dollar	Percent (annual rate)	2015 Q4	2016 Q4	Dollar	Percent (annual rate)	Dollar	(percent- age points)
1	Gross domestic product	17,468.9	17,824.2	355.3	2.0	17,514.1	17,876.2	362.1	2.1	6.8	0.1
2	Personal consumption expenditures	12,030.2	12,365.3	335.1	2.8	12,055.4	12,380.0	324.6	2.7	-10.4	-0.1
3	Goods	4,133.7	4,284.2	150.5	3.6	4,136.5	4,286.7	150.2	3.6	-0.3	0.0
4	Durable goods	1,421.1	1,525.4	104.3	7.3	1,423.3	1,522.2	98.9	7.0	-5.4	-0.3
5	Motor vehicles and parts	469.3	502.4	33.1	7.1	471.7	504.7	32.9	7.0	-0.2	-0.1
6	Furnishings and durable household equipment	328.3	350.7	22.4	6.8	329.1	351.4	22.3	6.8	-0.1	0.0
7	Recreational goods and vehicles	398.4	447.8	49.4	12.4	397.3	439.9	42.6	10.7	-6.8	-1.7
8	Other durable goods	226.7	227.8	1.1	0.5	226.5	228.7	2.2	1.0	1.1	0.5
9	Nondurable goods	2,716.4	2,765.2	48.8	1.8	2,716.9	2,770.7	53.7	2.0	4.9	0.2
10	Food and beverages purchased for off-premises consumption	886.5	922.3	35.8	4.0	887.7	924.4	36.7	4.1	0.9	0.1
11	Clothing and footwear	370.4	373.7	3.3	0.9	370.6	375.9	5.3	1.4	2.0	0.5
12	Gasoline and other energy goods	451.5	446.9	-4.6	-1.0	449.8	446.4	-3.5	-0.8	1.1	0.2
13	Other nondurable goods	1,008.2	1,017.3	9.1	0.9	1,008.4	1,018.5	10.1	1.0	1.0	0.1
14	Services	7,903.1	8,092.2	189.2	2.4	7,924.9	8,104.3	179.3	2.3	-9.9	-0.1
15	Household consumption expenditures (for services)	7,555.1	7,736.7	181.5	2.4	7,575.5	7,745.2	169.7	2.2	-11.8	-0.2
16	Housing and utilities	2,094.4	2,124.3	30.0	1.4	2,097.5	2,128.0	30.5	1.5	0.6	0.1
17	Health care	2,013.3	2,098.3	85.0	4.2	2,016.8	2,099.8	83.0	4.1	-2.0	-0.1
18	Transportation services	394.4	412.5	18.1	4.6	394.2	412.3	18.1	4.6	0.0	0.0
19	Recreation services	478.6	488.1	9.5	2.0	478.3	486.9	8.7	1.8	-0.8	-0.2
20	Food services and accommodations	782.6	793.5	10.9	1.4	783.2	794.9	11.7	1.5	0.9	0.1
21	Financial services and insurance	833.8	816.9	-16.9	-2.0	837.5	823.2	-14.3	-1.7	2.5	0.3
22	Other services	962.5	1,014.1	51.6	5.4	972.4	1,010.3	37.8	3.9	-13.8	-1.5
23	Final consumption expenditures of nonprofit institutions serving households (NPISHs)	348.1	355.7	7.6	2.2	349.6	359.1	9.5	2.7	1.9	0.5
24	Gross output of nonprofit institutions	1,311.5	1,365.2	53.7	4.1	1,312.4	1,368.7	56.3	4.3	2.6	0.2
25	Less: Receipts from sales of goods and services by nonprofit institutions	963.7	1,010.1	46.4	4.8	963.0	1,010.0	47.0	4.9	0.6	0.1
26	Gross private domestic investment	3,067.1	3,114.0	46.9	1.5	3,092.7	3,130.1	37.4	1.2	-9.5	-0.3
27	Fixed investment	2,971.9	3,053.7	81.8	2.8	2,991.8	3,062.2	70.5	2.4	-11.4	-0.4
28	Nonresidential	2,393.2	2,451.2	58.0	2.4	2,412.8	2,457.4	44.5	1.8	-13.4	-0.6
29	Structures	491.1	512.1	21.0	4.3	510.6	528.5	17.9	3.5	-3.0	-0.8



Table A3. Revisions to Real GDP, Expanded Detail, Over the Period 2015Q4 – 2016Q4 [Billions of chained dollars]

			Previously chained (20			Revis	sed chaine	d (2012) d	ollars		sion in inge
Line	Real GDP and its major components	2015	2016	Chang 2015Q4 -	ge for - 2016Q4	2015	2016		ge for - 2016Q4		Percent change
	major components	Q4	Q4	Dollar	Percent (annual rate)	Q4	Q4	Dollar	Percent (annual rate)	Dollar	(percent- age points)
30	Equipment	1,137.9	1,122.0	-15.9	-1.4	1,133.6	1,108.7	-24.9	-2.2	-9.0	-0.8
31	Information processing equipment	405.7	426.0	20.4	5.0	403.8	418.1	14.3	3.5	-6.0	-1.5
32	Computers and peripheral equipment	102.2	104.3	2.1	2.1	101.3	103.1	1.8	1.8	-0.3	-0.3
33	Other	305.2	324.1	18.9	6.2	304.3	317.2	13.0	4.3	-5.9	-1.9
34	Industrial equipment	217.6	217.0	-0.6	-0.3	217.4	214.9	-2.5	-1.2	-1.9	-0.9
35	Transportation equipment	292.1	266.3	-25.8	-8.8	289.4	268.0	-21.3	-7.4	4.5	1.4
36	Other equipment	224.7	219.7	-5.0	-2.2	225.2	214.1	-11.1	-4.9	-6.1	-2.7
37	Intellectual property products	768.3	819.2	50.9	6.6	771.3	820.8	49.5	6.4	-1.4	-0.2
38	Software	326.2	354.9	28.7	8.8	327.1	355.7	28.6	8.7	-0.1	-0.1
39	Research and development	366.0	386.2	20.2	5.5	368.1	387.0	18.9	5.1	-1.4	-0.4
40	Entertainment, literary, and artistic originals	76.3	79.0	2.7	3.5	76.3	79.1	2.8	3.6	0.1	0.1
41	Residential	573.0	595.5	22.4	3.9	573.6	597.6	24.0	4.2	1.6	0.3
42	Change in private inventories	86.0	44.8	-41.2		91.4	52.3	-39.1		2.1	
43	Farm	0.2	-7.4	-7.6		-1.2	-7.3	-6.1		1.5	
44	Nonfarm	85.1	50.1	-35.0		91.8	57.3	-34.5		0.5	
45	Net exports of goods and services	-752.8	-834.6	-81.8		-754.5	-806.3	-51.8		30.0	
46	Exports	2,363.2	2,388.1	24.9	1.1	2,363.5	2,397.9	34.3	1.5	9.4	0.4
47	Goods	1,620.8	1,660.7	39.9	2.5	1,624.1	1,665.0	40.8	2.5	1.0	0.0
48	Services	740.3	728.8	-11.5	-1.6	737.7	733.9	-3.8	-0.5	7.7	1.1
49	Imports	3,116.0	3,222.7	106.7	3.4	3,118.0	3,204.2	86.2	2.8	-20.6	-0.6
50	Goods	2,621.5	2,703.1	81.6	3.1	2,620.2	2,700.8	80.6	3.1	-1.0	0.0
51	Services	495.5	519.2	23.7	4.8	498.2	505.1	6.9	1.4	-16.8	-3.4
52	Government consumption expenditures and gross investment	3,113.6	3,159.3	45.7	1.5	3,110.0	3,156.6	46.6	1.5	0.8	0.0
53	Federal	1,188.6	1,189.9	1.3	0.1	1,190.5	1,191.2	0.7	0.1	-0.5	0.0
54	National defense	713.9	708.1	-5.8	-0.8	714.0	709.0	-5.0	-0.7	0.9	0.1
55	Consumption expenditures	572.2	572.7	0.5	0.1	572.1	574.9	2.8	0.5	2.2	0.4
56	Gross investment	141.7	135.3	-6.4	-4.5	141.8	134.0	-7.8	-5.5	-1.4	-1.0
57	Nondefense	474.2	481.1	6.9	1.5	476.0	481.5	5.5	1.2	-1.4	-0.3
58	Consumption expenditures	354.5	358.2	3.7	1.0	353.4	354.3	0.8	0.2	-2.8	-0.8
59	Gross investment	119.7	123.0	3.3	2.7	122.6	127.4	4.8	3.9	1.5	1.2
60	State and local	1,923.3	1,967.4	44.1	2.3	1,918.0	1,963.4	45.5	2.4	1.3	0.1
61	Consumption expenditures	1,586.4	1,617.5	31.1	2.0	1,579.3	1,611.0	31.7	2.0	0.7	0.0
62	Gross investment	336.8	349.9	13.1	3.9	338.7	352.4	13.7	4.1	0.6	0.2
				Addenda							
63	Gross domestic income ¹		17,865.2	163.3	0.9	1	17,917.6	213.1	1.2	49.8	0.3
64	Average of GDP and GDI ²		17,844.7	259.3	1.5	17,609.3	17,896.9	287.6	1.6	28.3	0.1
65	Final sales of domestic product		17,763.5	389.7	2.2	17,413.3		394.6	2.3	4.9	0.1
66	Gross domestic purchases		18,635.1	427.4	2.3		18,663.2	408.3	2.2	-19.1	-0.1
67	Gross national product		18,068.4	368.9	2.1		18,138.7	397.3	2.2	28.4	0.1
68	Disposable personal income ³	13,478.6	13,696.7	218.1	1.6	13,490.5	13,734.8	244.3	1.8	26.2	0.2

- 1. Gross domestic income deflated by the implicit price deflator for gross domestic product.
- 2. The arithmetic average of gross domestic product and of gross domestic income, deflated by the implicit price deflator for GDP.
- 3. Disposable personal income deflated by the implicit price deflator for personal consumption expenditures.



Table A4. Revisions to Real GDP, Expanded Detail, Over the Period 2016Q4 – 2017Q4 [Billions of chained dollars]

			Previously chained (20			Revis	sed chaine	d (2012) d	ollars		ion in
Line	Real GDP and its major components	2046	2047	Chan 2016Q4 -	ge for - 2017Q4	2016	2047		ge for - 2017Q4		Percent change
	major components	2016 Q4	2017 Q4	Dollar	Percent (annual rate)	2016 Q4	2017 Q4	Dollar	Percent (annual rate)	Dollar	(percent- age points)
1	Gross domestic product	17,824.2	18,322.5	498.2	2.8	17,876.2	18,359.4	483.3	2.7	-15.0	-0.1
2	Personal consumption expenditures	12,365.3	12,729.7	364.4	2.9	12,380.0	12,733.7	353.7	2.9	-10.7	0.0
3	Goods	4,284.2	4,499.8	215.6	5.0	4,286.7	4,508.3	221.6	5.2	6.0	0.2
4	Durable goods	1,525.4	1,643.5	118.1	7.7	1,522.2	1,645.7	123.5	8.1	5.3	0.4
5	Motor vehicles and parts	502.4	532.6	30.2	6.0	504.7	534.1	29.4	5.8	-0.8	-0.2
6	Furnishings and durable household equipment	350.7	385.2	34.5	9.8	351.4	386.8	35.4	10.1	0.9	0.3
7	Recreational goods and vehicles	447.8	492.4	44.6	10.0	439.9	490.6	50.7	11.5	6.1	1.5
8	Other durable goods	227.8	238.7	10.9	4.8	228.7	239.5	10.8	4.7	-0.1	-0.1
9	Nondurable goods	2,765.2	2,866.7	101.5	3.7	2,770.7	2,873.2	102.5	3.7	1.0	0.0
10	Food and beverages purchased for off-premises consumption	922.3	957.2	34.9	3.8	924.4	957.2	32.8	3.5	-2.1	-0.3
11	Clothing and footwear	373.7	385.5	11.8	3.2	375.9	389.0	13.1	3.5	1.3	0.3
12	Gasoline and other energy goods	446.9	448.0	1.1	0.3	446.4	448.5	2.2	0.5	1.0	0.2
13	Other nondurable goods	1,017.3	1,065.4	48.1	4.7	1,018.5	1,067.8	49.3	4.8	1.2	0.1
14	Services	8,092.2	8,254.9	162.7	2.0	8,104.3	8,251.9	147.6	1.8	-15.1	-0.2
15	Household consumption expenditures (for services)	7,736.7	7,906.2	169.5	2.2	7,745.2	7,903.9	158.7	2.0	-10.8	-0.2
16	Housing and utilities	2,124.3	2,150.0	25.7	1.2	2,128.0	2,153.3	25.3	1.2	-0.4	0.0
17	Health care	2,098.3	2,146.9	48.6	2.3	2,099.8	2,146.0	46.2	2.2	-2.5	-0.1
18	Transportation services	412.5	430.2	17.7	4.3	412.3	431.8	19.4	4.7	1.8	0.4
19	Recreation services	488.1	483.6	-4.5	-0.9	486.9	482.2	-4.7	-1.0	-0.2	-0.1
20	Food services and accommodations	793.5	817.7	24.2	3.1	794.9	814.8	19.9	2.5	-4.3	-0.6
21	Financial services and insurance	816.9	838.8	21.9	2.7	823.2	840.8	17.6	2.1	-4.3	-0.6
22	Other services	1,014.1	1,051.8	37.7	3.7	1,010.3	1,047.5	37.2	3.7	-0.5	0.0
23	Final consumption expenditures of nonprofit institutions serving households (NPISHs)	355.7	349.6	-6.2	-1.7	359.1	348.8	-10.3	-2.9	-4.1	-1.2
24	Gross output of nonprofit institutions	1,365.2	1,372.6	7.3	0.5	1,368.7	1,372.9	4.3	0.3	-3.1	-0.2
25	Less: Receipts from sales of goods and services by nonprofit institutions	1,010.1	1,024.2	14.1	1.4	1,010.0	1,025.4	15.4	1.5	1.3	0.1
26	Gross private domestic investment	3,114.0	3,262.1	148.2	4.8	3,130.1	3,256.7	126.6	4.0	-21.6	-0.8
27	Fixed investment	3,053.7	3,210.7	157.0	5.1	3,062.2	3,209.2	147.0	4.8	-10.0	-0.3
28	Nonresidential	2,451.2	2,584.2	133.0	5.4	2,457.4	2,576.4	119.0	4.8	-13.9	-0.6
29	Structures	512.1	519.9	7.8	1.5	528.5	528.4	-0.1	0.0	-7.9	-1.5



Table A4. Revisions to Real GDP, Expanded Detail, Over the Period 2016Q4 – 2017Q4 [Billions of chained dollars]

			Previously hained (20			Revis	ed chaine	d (2012) d	ollars		ion in inge
Line	Real GDP and its major components	2046	2017		ge for - 2017Q4	2010	2012		ge for - 2017Q4		Percent change
	major components	2016 Q4	2017 Q4	Dollar	Percent (annual rate)	2016 Q4	2017 Q4	Dollar	Percent (annual rate)	Dollar	(percent- age points)
30	Equipment	1,122.0	1,217.8	95.8	8.5	1,108.7	1,191.4	82.7	7.5	-13.2	-1.0
31	Information processing equipment	426.0	477.2	51.2	12.0	418.1	458.9	40.8	9.8	-10.4	-2.2
32	Computers and peripheral equipment	104.3	113.8	9.5	9.1	103.1	112.6	9.6	9.3	0.1	0.2
33	Other	324.1	366.8	42.7	13.2	317.2	348.8	31.6	10.0	-11.1	-3.2
34	Industrial equipment	217.0	234.4	17.4	8.0	214.9	233.9	19.0	8.8	1.6	0.8
35	Transportation equipment	266.3	269.9	3.6	1.3	268.0	279.8	11.7	4.4	8.2	3.1
36	Other equipment	219.7	247.4	27.7	12.6	214.1	227.9	13.8	6.5	-13.9	-6.1
37	Intellectual property products	819.2	852.0	32.9	4.0	820.8	860.9	40.1	4.9	7.2	0.9
38	Software	354.9	383.5	28.6	8.1	355.7	386.5	30.8	8.7	2.2	0.6
39	Research and development	386.2	390.9	4.6	1.2	387.0	397.1	10.1	2.6	5.5	1.4
40	Entertainment, literary, and artistic originals	79.0	80.6	1.6	2.0	79.1	79.9	0.9	1.1	-0.8	-0.9
41	Residential	595.5	620.4	24.9	4.2	597.6	625.5	27.9	4.7	3.0	0.5
42	Change in private inventories	44.8	31.1	-13.7		52.3	25.3	-27.0		-13.3	
43	Farm	-7.4	-5.2	2.2		-7.3	-7.3	0.0		-2.2	
44	Nonfarm	50.1	34.9	-15.1		57.3	30.9	-26.4		-11.3	
45	Net exports of goods and services	-834.6	-883.8	-49.2		-806.3	-847.0	-40.6		8.5	
46	Exports	2,388.1	2,519.2	131.1	5.5	2,397.9	2,536.2	138.4	5.8	7.2	0.3
47 48	Goods	1,660.7 728.8	1,758.1 763.7	97.4 34.9	5.9 4.8	1,665.0 733.9	1,766.4 771.9	101.4 37.9	6.1 5.2	4.0 3.0	0.2
48	Services Imports	3,222.7	3,403.0	180.3	4.8 5.6	3,204.2	3,383.2	179.0	5.6	-1.3	0.4
50	Goods	2,703.1	2,865.8	162.7	6.0	2,700.8	2,862.0	161.2	6.0	-1.5	0.0
51	Services	519.2	538.9	19.6	3.8	505.1	525.1	20.0	4.0	0.3	0.2
52	Government consumption expenditures and gross investment	3,159.3	3,186.1	26.8	0.8	3,156.6	3,192.8	36.2	1.1	9.4	0.3
53	Federal	1,189.9	1,209.8	19.9	1.7	1,191.2	1,206.0	14.8	1.2	-5.1	-0.5
54	National defense	708.1	721.4	13.3	1.9	709.0	724.7	15.7	2.2	2.4	0.3
55	Consumption expenditures	572.7	575.3	2.6	0.5	574.9	578.0	3.0	0.5	0.5	0.0
56	Gross investment	135.3	146.2	10.9	8.0	134.0	146.9	12.8	9.6	2.0	1.6
57	Nondefense	481.1	487.7	6.6	1.4	481.5	480.8	-0.7	-0.1	-7.3	-1.5
58	Consumption expenditures	358.2	362.2	4.0	1.1	354.3	352.0	-2.3	-0.6	-6.3	-1.7
59	Gross investment	123.0	125.6	2.6	2.1	127.4	129.0	1.6	1.3	-1.0	-0.8
60	State and local	1,967.4	1,974.5	7.1	0.4	1,963.4	1,984.9	21.4	1.1	14.3	0.7
61	Consumption expenditures	1,617.5	1,625.9	8.4	0.5	1,611.0	1,625.5	14.5	0.9	6.1	0.4
62	Gross investment	349.9	348.6	-1.3	-0.4	352.4	359.3	6.9	2.0	8.2	2.4
62	Cross demonstration and	17.005.0	10 210 2	Addenda	2.5	17.047.0	10 427 6	F40.0	2.0	74.0	0.4
63	Gross domestic income ¹		18,310.2	445.0	2.5	1	18,437.6	519.9	2.9	74.9	0.4
64	Average of GDP and GDI ²		18,316.3	471.6	2.6	1	18,398.5	501.6	2.8	30.0	0.2
65	Final sales of domestic product		18,270.7	507.2	2.9	1	18,311.4	503.4	2.8	-3.7	-0.1
66	Gross domestic purchases Gross national product		19,173.1	538.0	2.9	1	19,178.8 18,663.1	515.6	2.8	-22.4 12.1	-0.1
67 68	Disposable personal income ³		18,580.7 14,162.4	512.3 465.7	2.8 3.4		14,205.8	524.4 471.0	2.9 3.4	12.1 5.3	0.1
80	Disposable personal income-	13,096./	14,162.4	405.7	3.4	13,/34.8	14,205.8	4/1.0	3.4	5.3	0.0

- ${\bf 1.} \quad {\bf Gross\ domestic\ income\ deflated\ by\ the\ implicit\ price\ deflator\ for\ gross\ domestic\ product.}$
- 2. The arithmetic average of gross domestic product and of gross domestic income, deflated by the implicit price deflator for GDP.
- 3. Disposable personal income deflated by the implicit price deflator for personal consumption expenditures.



Table A5. Revisions to Real GDP, Expanded Detail, Over the Period 2017Q4 – 2018Q4 [Billions of chained dollars]

			Previously chained (20	•		Revis	sed chaine	d (2012) d	ollars		ion in
Line	Real GDP and its major components	2047	2010	Chan; 2017Q4 -	ge for - 2018Q4	2047	2010		ge for - 2018Q4		Percent change
	major components	2017 Q4	2018 Q4	Dollar	Percent (annual rate)	2017 Q4	2018 Q4	Dollar	Percent (annual rate)	Dollar	(percent- age points)
1	Gross domestic product	18,322.5	18,783.5	461.1	2.5	18,359.4	18,813.9	454.5	2.5	-6.6	0.0
2	Personal consumption expenditures	12,729.7	13,066.3	336.6	2.6	12,733.7	13,033.4	299.6	2.4	-36.9	-0.2
3	Goods	4,499.8	4,631.8	132.0	2.9	4,508.3	4,639.8	131.6	2.9	-0.4	0.0
4	Durable goods	1,643.5	1,705.2	61.7	3.8	1,645.7	1,714.3	68.6	4.2	6.9	0.4
5	Motor vehicles and parts	532.6	538.5	5.9	1.1	534.1	537.1	3.0	0.6	-3.0	-0.5
6	Furnishings and durable household equipment	385.2	394.0	8.8	2.3	386.8	398.2	11.5	3.0	2.7	0.7
7	Recreational goods and vehicles	492.4	524.8	32.5	6.6	490.6	536.9	46.4	9.5	13.9	2.9
8	Other durable goods	238.7	256.6	17.8	7.5	239.5	252.8	13.3	5.5	-4.6	-2.0
9	Nondurable goods	2,866.7	2,938.9	72.2	2.5	2,873.2	2,938.9	65.7	2.3	-6.5	-0.2
10	Food and beverages purchased for off-premises consumption	957.2	977.2	20.0	2.1	957.2	970.4	13.3	1.4	-6.7	-0.7
11	Clothing and footwear	385.5	400.5	15.0	3.9	389.0	403.7	14.8	3.8	-0.3	-0.1
12	Gasoline and other energy goods	448.0	448.5	0.4	0.1	448.5	446.8	-1.8	-0.4	-2.2	-0.5
13	Other nondurable goods	1,065.4	1,099.2	33.9	3.2	1,067.8	1,104.0	36.2	3.4	2.4	0.2
14	Services	8,254.9	8,462.6	207.7	2.5	8,251.9	8,425.1	173.2	2.1	-34.5	-0.4
15	Household consumption expenditures (for services)	7,906.2	8,075.1	169.0	2.1	7,903.9	8,045.9	142.0	1.8	-27.0	-0.3
16	Housing and utilities	2,150.0	2,172.7	22.7	1.1	2,153.3	2,177.7	24.4	1.1	1.7	0.0
17	Health care	2,146.9	2,192.4	45.5	2.1	2,146.0	2,183.8	37.8	1.8	-7.7	-0.3
18	Transportation services	430.2	429.9	-0.2	-0.1	431.8	432.3	0.5	0.1	0.7	0.2
19	Recreation services	483.6	503.3	19.8	4.1	482.2	499.1	16.8	3.5	-2.9	-0.6
20	Food services and accommodations	817.7	849.4	31.7	3.9	814.8	835.7	20.9	2.6	-10.8	-1.3
21	Financial services and insurance	838.8	844.9	6.1	0.7	840.8	844.3	3.5	0.4	-2.6	-0.3
22	Other services	1,051.8	1,098.7	46.8	4.5	1,047.5	1,088.6	41.2	3.9	-5.6	-0.6
23	Final consumption expenditures of nonprofit institutions serving households (NPISHs)	349.6	386.9	37.3	10.7	348.8	378.9	30.1	8.6	-7.2	-2.1
24	Gross output of nonprofit institutions	1,372.6	1,419.8	47.2	3.4	1,372.9	1,413.3	40.4	2.9	-6.8	-0.5
25	Less: Receipts from sales of goods and services by nonprofit institutions	1,024.2	1,032.2	8.0	0.8	1,025.4	1,034.2	8.8	0.9	0.8	0.1
26	Gross private domestic investment	3,262.1	3,429.5	167.4	5.1	3,256.7	3,448.3	191.6	5.9	24.2	0.8
27	Fixed investment	3,210.7	3,323.0	112.4	3.5	3,209.2	3,338.7	129.4	4.0	17.1	0.5
28	Nonresidential	2,584.2	2,735.8	151.6	5.9	2,576.4	2,742.6	166.2	6.5	14.6	0.6
29	Structures	519.9	533.4	13.5	2.6	528.4	534.9	6.5	1.2	-7.0	-1.4



Table A5. Revisions to Real GDP, Expanded Detail, Over the Period 2017Q4 – 2018Q4 [Billions of chained dollars]

			Previously chained (20			Revis	sed chaine	d (2012) d	ollars		ion in inge
Line	Real GDP and its major components	2017	2018	Chan; 2017Q4 -	ge for - 2018Q4	2017	2018		ge for - 2018Q4		Percent change
	major components	Q4	Q4	Dollar	Percent (annual rate)	Q4	Q4	Dollar	Percent (annual rate)	Dollar	(percent- age points)
30	Equipment	1,217.8	1,279.2	61.4	5.0	1,191.4	1,274.8	83.4	7.0	22.0	2.0
31	Information processing equipment	477.2	504.2	26.9	5.6	458.9	483.9	25.0	5.5	-1.9	-0.1
32	Computers and peripheral equipment	113.8	122.7	8.9	7.8	112.6	123.8	11.1	9.9	2.2	2.1
33	Other	366.8	384.5	17.7	4.8	348.8	361.8	12.9	3.7	-4.8	-1.1
34	Industrial equipment	234.4	242.5	8.1	3.4	233.9	251.7	17.9	7.6	9.8	4.2
35	Transportation equipment	269.9	289.6	19.8	7.3	279.8	298.0	18.3	6.5	-1.5	-0.8
36	Other equipment	247.4	254.9	7.5	3.0	227.9	249.2	21.3	9.3	13.8	6.3
37	Intellectual property products	852.0	931.3	79.3	9.3	860.9	941.5	80.6	9.4	1.3	0.1
38	Software	383.5	428.0	44.6	11.6	386.5	432.6	46.1	11.9	1.5	0.3
39	Research and development	390.9	422.7	31.9	8.2	397.1	430.0	32.9	8.3	1.0	0.1
40	Entertainment, literary, and artistic originals	80.6	85.2	4.6	5.7	79.9	83.4	3.4	4.3	-1.1	-1.4
41	Residential	620.4	593.0	-27.4	-4.4	625.5	601.0	-24.5	-3.9	2.9	0.5
42	Change in private inventories	31.1	93.0	61.9		25.3	92.3	67.0		5.1	
43	Farm	-5.2	-13.7	-8.5		-7.3	-12.2	-4.9		3.6	
44	Nonfarm	34.9	103.0	68.1		30.9	100.8	70.0		1.8	
45	Net exports of goods and services	-883.8	-983.0	-99.2		-847.0	-937.3	-90.3		9.0	
46	Exports	2,519.2	2,528.5	9.3	0.4	2,536.2	2,548.8	12.5	0.5	3.2	0.1
47	Goods	1,758.1	1,782.5	24.4	1.4	1,766.4	1,787.9	21.5	1.2	-2.9	-0.2
48	Services	763.7	751.7	-11.9	-1.6	771.9	765.2	-6.7	-0.9	5.3	0.7
49	Imports	3,403.0	3,511.6	108.6	3.2	3,383.2	3,486.0	102.8	3.0	- 5.7	-0.2
50 51	Goods Services	2,865.8 538.9	2,962.0 552.0	96.3 13.1	3.4 2.4	2,862.0 525.1	2,957.9 533.8	95.9 8.7	3.4 1.7	-0.3 -4.4	0.0 -0.7
52	Government consumption expenditures and gross investment	3,186.1	3,234.9	48.8	1.5	3,192.8	3,240.2	47.4	1.5	-1.5	0.0
53	Federal	1,209.8	1,242.1	32.4	2.7	1,206.0	1,241.6	35.6	3.0	3.3	0.3
54	National defense	721.4	750.6	29.2	4.0	724.7	755.1	30.4	4.2	1.2	0.2
55	Consumption expenditures	575.3	595.7	20.4	3.5	578.0	595.1	17.2	3.0	-3.2	-0.5
56	Gross investment	146.2	155.1	8.9	6.1	146.9	160.4	13.6	9.2	4.6	3.1
57	Nondefense	487.7	491.3	3.5	0.7	480.8	486.4	5.5	1.1	2.0	0.4
58	Consumption expenditures	362.2	365.1	2.9	0.8	352.0	355.7	3.7	1.1	0.8	0.3
59	Gross investment	125.6	126.2	0.7	0.5	129.0	130.9	1.8	1.4	1.2	0.9
60	State and local	1,974.5	1,991.4	16.9	0.9	1,984.9	1,997.1	12.3	0.6	-4.6	-0.3
61	Consumption expenditures	1,625.9	1,643.1	17.3	1.1	1,625.5	1,643.1	17.6	1.1	0.3	0.0
62	Gross investment	348.6	348.2	-0.4	-0.1	359.3	354.0	-5.3	-1.5	-4.9	-1.4
				Addenda							
63	Gross domestic income ¹	18,310.2	18,739.3	429.1	2.3	18,437.6	18,876.3	438.7	2.4	9.6	0.1
64	Average of GDP and GDI ²	18,316.3	18,761.4	445.1	2.4	18,398.5	18,845.1	446.6	2.4	1.5	0.0
65	Final sales of domestic product	18,270.7	18,678.3	407.7	2.2	18,311.4	18,705.9	394.5	2.2	-13.1	0.0
66	Gross domestic purchases	19,173.1	19,724.2	551.0	2.9	19,178.8	19,715.2	536.4	2.8	-14.7	-0.1
67	Gross national product	18,580.7	19,028.0	447.3	2.4	18,663.1	19,065.5	402.4	2.2	-44.9	-0.2
68	Disposable personal income ³	14,162.4	14,715.2	552.8	3.9	14,205.8	14,732.3	526.5	3.7	-26.3	-0.2

- 1. Gross domestic income deflated by the implicit price deflator for gross domestic product.
- 2. The arithmetic average of gross domestic product and of gross domestic income, deflated by the implicit price deflator for GDP.
- 3. Disposable personal income deflated by the implicit price deflator for personal consumption expenditures.



Table A6. Revisions to Real GDP, Expanded Detail, Over the Period 2018Q4 – 2019Q4 [Billions of chained dollars]

			Previously hained (20			Revised chained (2012) dollars					ion in inge
Line	Real GDP and its major components	2018	2019	Chang 2018Q4 -	ge for - 2019Q4	2018	2019		ge for - 2019Q4		Percent change
	major components	Q4	Q4	Dollar	Percent (annual rate)	Q4	Q4	Dollar	Percent (annual rate)	Dollar	(percent- age points)
1	Gross domestic product	18,783.5	19,222.0	438.4	2.3	18,813.9	19,254.0	440.0	2.3	1.6	0.0
2	Personal consumption expenditures	13,066.3	13,413.8	347.5	2.7	13,033.4	13,353.7	320.3	2.5	-27.2	-0.2
3	Goods	4,631.8	4,814.7	182.9	3.9	4,639.8	4,811.8	172.0	3.7	-10.9	-0.2
4	Durable goods	1,705.2	1,806.1	100.9	5.9	1,714.3	1,811.7	97.4	5.7	-3.5	-0.2
5	Motor vehicles and parts	538.5	554.8	16.3	3.0	537.1	539.2	2.1	0.4	-14.2	-2.6
6	Furnishings and durable household equipment	394.0	411.6	17.6	4.5	398.2	417.3	19.1	4.8	1.5	0.3
7	Recreational goods and vehicles	524.8	588.3	63.4	12.1	536.9	613.0	76.0	14.2	12.6	2.1
8	Other durable goods	256.6	267.2	10.6	4.1	252.8	263.7	10.9	4.3	0.3	0.2
9	Nondurable goods	2,938.9	3,025.7	86.8	3.0	2,938.9	3,018.2	79.3	2.7	-7.5	-0.3
10	Food and beverages purchased for off-premises consumption	977.2	995.8	18.6	1.9	970.4	987.1	16.6	1.7	-2.0	-0.2
11	Clothing and footwear	400.5	412.8	12.3	3.1	403.7	418.0	14.3	3.5	1.9	0.4
12	Gasoline and other energy goods	448.5	446.5	-2.0	-0.4	446.8	441.6	-5.2	-1.2	-3.2	-0.8
13	Other nondurable goods	1,099.2	1,152.3	53.1	4.8	1,104.0	1,152.5	48.5	4.4	-4.6	-0.4
14	Services	8,462.6	8,639.1	176.5	2.1	8,425.1	8,584.9	159.8	1.9	-16.7	-0.2
15	Household consumption expenditures (for services)	8,075.1	8,283.2	208.1	2.6	8,045.9	8,237.0	191.1	2.4	-17.0	-0.2
16	Housing and utilities	2,172.7	2,193.4	20.8	1.0	2,177.7	2,199.1	21.3	1.0	0.6	0.0
17	Health care	2,192.4	2,275.9	83.5	3.8	2,183.8	2,260.2	76.4	3.5	-7.1	-0.3
18	Transportation services	429.9	443.9	14.0	3.2	432.3	447.8	15.6	3.6	1.6	0.4
19	Recreation services	503.3	517.0	13.7	2.7	499.1	506.7	7.6	1.5	-6.1	-1.2
20	Food services and accommodations	849.4	865.9	16.5	1.9	835.7	847.0	11.3	1.3	-5.3	-0.6
21	Financial services and insurance	844.9	865.6	20.7	2.5	844.3	865.8	21.4	2.5	0.7	0.0
22	Other services	1,098.7	1,142.7	44.0	4.0	1,088.6	1,130.5	41.8	3.8	-2.2	-0.2
23	Final consumption expenditures of nonprofit institutions serving households (NPISHs)	386.9	357.1	-29.8	-7.7	378.9	349.5	-29.4	-7.8	0.4	-0.1
24	Gross output of nonprofit institutions	1,419.8	1,437.9	18.1	1.3	1,413.3	1,422.1	8.8	0.6	-9.3	-0.7
25	Less: Receipts from sales of goods and services by nonprofit institutions	1,032.2	1,082.7	50.5	4.9	1,034.2	1,074.9	40.7	3.9	-9.8	-1.0
26	Gross private domestic investment	3,429.5	3,363.4	-66.1	-1.9	3,448.3	3,413.3	-35.0	-1.0	31.1	0.9
27	Fixed investment	3,323.0	3,325.9	2.9	0.1	3,338.7	3,387.2	48.5	1.5	45.6	1.4
28	Nonresidential	2,735.8	2,725.7	-10.1	-0.4	2,742.6	2,781.5	38.9	1.4	48.9	1.8
29	Structures	533.4	500.1	-33.3	-6.2	534.9	545.1	10.2	1.9	43.5	8.1



Table A6. Revisions to Real GDP, Expanded Detail, Over the Period 2018Q4 – 2019Q4 [Billions of chained dollars]

			Previously hained (20			Revis	sed chaine	d (2012) d	ollars		ion in inge
Line	Real GDP and its major components	2040	2010		ge for - 2019Q4	2040	2040		ge for - 2019Q4		Percent change
	major components	2018 Q4	2019 Q4	Dollar	Percent (annual rate)	2018 Q4	2019 Q4	Dollar	Percent (annual rate)	Dollar	(percent- age points)
30	Equipment	1,279.2	1,255.6	-23.6	-1.8	1,274.8	1,258.0	-16.8	-1.3	6.8	0.5
31	Information processing equipment	504.2	516.5	12.3	2.4	483.9	492.9	9.0	1.9	-3.3	-0.5
32	Computers and peripheral equipment	122.7	132.4	9.6	7.9	123.8	134.4	10.6	8.6	1.0	0.7
33	Other	384.5	385.7	1.1	0.3	361.8	358.3	-3.5	-1.0	-4.6	-1.3
34	Industrial equipment	242.5	237.2	-5.3	-2.2	251.7	245.3	-6.4	-2.6	-1.2	-0.4
35	Transportation equipment	289.6	271.1	-18.5	-6.4	298.0	283.0	-15.1	-5.1	3.4	1.3
36	Other equipment	254.9	248.1	-6.8	-2.7	249.2	248.5	-0.8	-0.3	6.1	2.4
37	Intellectual property products	931.3	982.0	50.7	5.4	941.5	985.2	43.7	4.6	-7.0	-0.8
38	Software	428.0	470.3	42.3	9.9	432.6	461.8	29.2	6.8	-13.0	-3.1
39	Research and development	422.7	433.7	11.0	2.6	430.0	445.3	15.4	3.6	4.3	1.0
40	Entertainment, literary, and artistic originals	85.2	86.7	1.5	1.7	83.4	84.3	0.9	1.1	-0.5	-0.6
41	Residential	593.0	603.1	10.1	1.7	601.0	610.5	9.5	1.6	-0.6	-0.1
42	Change in private inventories	93.0	13.1	-79.9		92.3	-1.1	-93.3		-13.4	
43	Farm	-13.7	-7.7	6.0		-12.2	-15.6	-3.5		-9.5	
44	Nonfarm	103.0	19.0	-84.0		100.8	11.5	-89.3		-5.3	
45	Net exports of goods and services	-983.0	-900.7	82.3		-937.3	-861.5	75.8		-6.6	
46	Exports	2,528.5	2,536.4	7.8	0.3	2,548.8	2,557.8	9.1	0.4	1.2	0.1
47	Goods	1,782.5	1,782.3	-0.2	0.0	1,787.9	1,786.8	-1.1	-0.1	-0.9	-0.1
48	Services	751.7	758.6	6.9	0.9	765.2	774.0	8.8	1.1	1.9	0.2
49	Imports	3,511.6	3,437.1	-74.5	-2.1	3,486.0	3,419.3	-66.7	-1.9	7.8	0.2
50	Goods	2,962.0 552.0	2,861.5 570.4	-100.5	-3.4	2,957.9	2,872.2 546.5	-85.7	-2.9	14.8 -5.8	0.5
51 52	Services Government consumption	552.0	570.4	18.5	3.3	533.8	540.5	12.7	2.4	-5.8	-0.9
	expenditures and gross investment Federal	3,234.9	3,331.1	96.1	3.0	3,240.2	3,337.5	97.3	3.0	1.2	0.0
53		1,242.1	1,295.1	52.9	4.3	1,241.6	1,301.1	59.5	4.8	6.6	0.5
54 55	National defense	750.6 595.7	783.3 618.7	32.7	4.4 3.9	755.1 595.1	797.1 623.0	41.9 27.8	5.6 4.7	9.2 4.8	1.2 0.8
56	Consumption expenditures Gross investment	155.1	165.0	23.0 9.9	6.4	160.4	174.8	14.4	9.0	4.6	2.6
57	Nondefense	491.3	511.5	20.2	4.1	486.4	504.1	17.8	3.7	-2.5	-0.4
58	Consumption expenditures	365.1	381.3	16.2	4.4	355.7	366.8	11.1	3.7	-5.2	-1.3
59	Gross investment	126.2	130.2	3.9	3.1	130.9	137.7	6.8	5.2	2.9	2.1
60	State and local	1,991.4	2,035.0	43.6	2.2	1,997.1	2,035.6	38.5	1.9	-5.2	-0.3
61	Consumption expenditures	1,643.1	1,662.8	19.7	1.2	1,643.1	1,659.2	16.1	1.0	-3.6	-0.2
62	Gross investment	348.2	372.1	23.9	6.9	354.0	376.4	22.4	6.3	-1.5	-0.6
			9.1.1.	Addenda							
63	Gross domestic income ¹	18 730 2	19,134.5	395.2	2.1	18,876.3	19 230 7	354.5	1.9	-40.7	-0.2
64	Average of GDP and GDI ²		19,178.2	416.8	2.1	18,845.1		397.3	2.1	-40.7 -19.5	-0.2 -0.1
65	Final sales of domestic product		19,183.2	504.9	2.7	18,705.9		520.7	2.1	15.8	0.1
66	Gross domestic purchases		20,103.1	378.9	1.9	19,715.2		384.5	1.9	5.5	0.0
67	Gross national product		19,515.5	487.4	2.6	1	19,509.6	444.1	2.3	-43.4	-0.3
68	Disposable personal income ³		15,090.9	375.7	2.6	14,732.3		232.2	1.6	-143.4	-1.0
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- 1. Gross domestic income deflated by the implicit price deflator for gross domestic product.
- 2. The arithmetic average of gross domestic product and of gross domestic income, deflated by the implicit price deflator for GDP.
- 3. Disposable personal income deflated by the implicit price deflator for personal consumption expenditures.



Table A7. Revisions to Real GDP, Expanded Detail, Over the Period 2014Q4 – 2019Q4 [Billions of chained dollars]

			Previously hained (20			Revis	ed chaine	d (2012) d	ollars		age points) 32.0 0.0 60.1 -0.1 -2.9 -0.1 5.6 0.1			
Line	Real GDP and its major components	2014	2019	Chan; 2014Q4 -	ge for - 2019Q4	2014	2019		ge for - 2019Q4					
	major components	2014 Q4	Q4	Dollar	Percent (annual rate)	2014 Q4	Q4	Dollar	Percent (annual rate)	Dollar	age			
1	Gross domestic product	17,143.0	19,222.0	2,078.9	2.3	17,143.0	19,254.0	2,110.9	2.3	32.0	0.0			
2	Personal consumption expenditures	11,695.0	13,413.8	1,718.8	2.8	11,695.0	13,353.7	1,658.7	2.7	-60.1	-0.1			
3	Goods	3,984.4	4,814.7	830.3	3.9	3,984.4	4,811.8	827.5	3.8	-2.9	-0.1			
4	Durable goods	1,343.3	1,806.1	462.8	6.1	1,343.3	1,811.7	468.4	6.2					
5	Motor vehicles and parts	452.1	554.8	102.7	4.2	452.1	539.2	87.1	3.6	-15.6	-0.6			
6	Furnishings and durable household equipment	302.0	411.6	109.7	6.4	302.0	417.3	115.3	6.7	5.7	0.3			
7	Recreational goods and vehicles	376.3	588.3	212.0	9.3	376.3	613.0	236.7	10.3	24.7	1.0			
8	Other durable goods	213.5	267.2	53.7	4.6	213.5	263.7	50.2	4.3	-3.5	-0.3			
9	Nondurable goods	2,643.6	3,025.7	382.2	2.7	2,643.6	3,018.2	374.7	2.7	-7.5	0.0			
10	Food and beverages purchased for off-premises consumption	876.3	995.8	119.5	2.6	876.3	987.1	110.7	2.4	-8.8	-0.2			
11	Clothing and footwear	363.7	412.8	49.1	2.6	363.7	418.0	54.3	2.8	5.2	0.2			
12	Gasoline and other energy goods	437.2	446.5	9.3	0.4	437.2	441.6	4.4	0.2	-4.9	-0.2			
13	Other nondurable goods	966.2	1,152.3	186.1	3.6	966.2	1,152.5	186.4	3.6	0.2	0.0			
14	Services	7,713.9	8,639.1	925.2	2.3	7,713.9	8,584.9	870.9	2.2	-54.3	-0.1			
15	Household consumption expenditures (for services)	7,372.2	8,283.2	911.1	2.4	7,372.2	8,237.0	864.8	2.2	-46.2	-0.2			
16	Housing and utilities	2,057.6	2,193.4	135.8	1.3	2,057.6	2,199.1	141.4	1.3	5.6	0.0			
17	Health care	1,945.2	2,275.9	330.7	3.2	1,945.2	2,260.2	315.0	3.0	-15.7	-0.2			
18	Transportation services	378.5	443.9	65.4	3.2	378.5	447.8	69.3	3.4	3.9	0.2			
19	Recreation services	458.1	517.0	58.9	2.4	458.1	506.7	48.6	2.0	-10.3	-0.4			
20	Food services and accommodations	756.0	865.9	109.9	2.8	756.0	847.0	91.0	2.3	-18.9	-0.5			
21	Financial services and insurance	825.4	865.6	40.2	1.0	825.4	865.8	40.3	1.0	0.1	0.0			
22	Other services	953.8	1,142.7	188.9	3.7	953.8	1,130.5	176.7	3.5	-12.2	-0.2			
23	Final consumption expenditures of nonprofit institutions serving households (NPISHs)	341.9	357.1	15.2	0.9	341.9	349.5	7.6	0.4	-7.6	-0.5			
24	Gross output of nonprofit institutions	1,290.3	1,437.9	147.7	2.2	1,290.3	1,422.1	131.8	2.0	-15.8	-0.2			
25	Less: Receipts from sales of goods and services by nonprofit institutions	948.7	1,082.7	134.0	2.7	948.7	1,074.9	126.3	2.5	-7.7	-0.2			
26	Gross private domestic investment	3,021.9	3,363.4	341.5	2.2	3,021.9	3,413.3	391.5	2.5	49.9	0.3			
27	Fixed investment	2,941.2	3,325.9	384.7	2.5	2,941.2	3,387.2	446.0	2.9	61.3	0.4			
28	Nonresidential	2,415.5	2,725.7	310.3	2.4	2,415.5	2,781.5	366.0	2.9	55.7	0.5			
29	Structures	551.0	500.1	-50.8	-1.9	551.0	545.1	-5.8	-0.2	45.0	1.7			



Table A7. Revisions to Real GDP, Expanded Detail, Over the Period 2014Q4 – 2019Q4 [Billions of chained dollars]

		Previously published chained (2012) dollars			Revised chained (2012) dollars				Revision in change		
Line	Real GDP and its major components	2014	2010	Chan; 2014Q4 -	ge for - 2019Q4	2014	2010		ge for - 2019Q4		Percent change
	major components	2014 Q4	2019 Q4	Dollar	Percent (annual rate)	2014 Q4	2019 Q4	Dollar	Percent (annual rate)	Dollar	(percent- age points)
30	Equipment	1,116.9	1,255.6	138.7	2.4	1,116.9	1,258.0	141.1	2.4	2.4	0.0
31	Information processing equipment	379.3	516.5	137.2	6.4	379.3	492.9	113.6	5.4	-23.6	-1.0
32	Computers and peripheral equipment	104.7	132.4	27.7	4.8	104.7	134.4	29.7	5.1	2.0	0.3
33	Other	275.1	385.7	110.6	7.0	275.1	358.3	83.2	5.4	-27.4	-1.6
34	Industrial equipment	215.3	237.2	21.9	2.0	215.3	245.3	30.0	2.6	8.1	0.6
35	Transportation equipment	271.6	271.1	-0.4	0.0	271.6	283.0	11.4	0.8	11.9	0.8
36	Other equipment	250.5	248.1	-2.4	-0.2	250.5	248.5	-2.0	-0.2	0.4	0.0
37	Intellectual property products	746.6	982.0	235.4	5.6	746.6	985.2	238.6	5.7	3.1	0.1
38	Software	311.9	470.3	158.4	8.6	311.9	461.8	149.9	8.2	-8.5	-0.4
39	Research and development	360.2	433.7	73.5	3.8	360.2	445.3	85.1	4.3	11.6	0.5
40	Entertainment, literary, and artistic originals	74.4	86.7	12.3	3.1	74.4	84.3	9.9	2.5	-2.4	-0.6
41	Residential	525.2	603.1	77.9	2.8	525.2	610.5	85.4	3.1	7.4	0.3
42	Change in private inventories	82.0	13.1	-68.9		82.0	-1.1	-83.0		-14.1	
43	Farm	-4.4	-7.7	-3.3		-4.4	-15.6	-11.2		-7.9	
44	Nonfarm	87.0	19.0	-68.0		87.0	11.5	-75.4		-7.5	
45	Net exports of goods and services	-617.9	-900.7	-282.8		-617.9	-861.5	-243.6		39.2	
46	Exports	2,400.3	2,536.4	136.1	1.1	2,400.3	2,557.8	157.6	1.3	21.5	0.2
47	Goods	1,672.2	1,782.3	110.1	1.3	1,672.2	1,786.8	114.6	1.3	4.5	0.0
48	Services	728.7	758.6	29.9	0.8	728.7	774.0	45.3	1.2	15.4	0.4
49	Imports	3,018.2	3,437.1	418.9	2.6	3,018.2	3,419.3	401.1	2.5	-17.7	-0.1
50	Goods	2,539.5	2,861.5	322.0	2.4	2,539.5	2,872.2	332.7	2.5	10.7	0.1
51	Services	479.8	570.4	90.7	3.5	479.8	546.5	66.7	2.6	-24.0	-0.9
	Government consumption expenditures and gross investment	3,043.4	3,331.1	287.6	1.8	3,043.4	3,337.5	294.0	1.9	6.4	0.1
53	Federal	1,175.5	1,295.1	119.6	2.0	1,175.5	1,301.1	125.6	2.1	6.1	0.1
54	National defense	716.6	783.3	66.7	1.8	716.6	797.1	80.5	2.2	13.8	0.4
55	Consumption expenditures	574.2	618.7	44.5	1.5	574.2	623.0	48.8	1.6	4.2	0.1
56	Gross investment	142.4	165.0	22.6	3.0	142.4	174.8	32.4	4.2	9.8	1.2
57	Nondefense	458.6	511.5	52.9	2.2	458.6	504.1	45.5	1.9	-7.4	-0.3
58	Consumption expenditures	340.7	381.3	40.6	2.3	340.7	366.8	26.1	1.5	-14.5	-0.8
59	Gross investment	117.9	130.2	12.3	2.0	117.9	137.7	19.8	3.1	7.5	1.1
60 61	State and local Consumption expenditures	1,866.6 1,535.2	2,035.0 1,662.8	168.4 127.7	1.7 1.6	1,866.6 1,535.2	2,035.6 1,659.2	169.0 124.0	1.7 1.6	0.6 -3.6	0.0
62	Gross investment	331.4	372.1	40.7	2.3	331.4	376.4	45.0	2.6	4.3	0.0
02	GIOSS IIIVESTITIETIT	331.4	3/2.1	Addenda	2.3	331.4	370.4	45.0	2.0	4.5	0.5
63	Gross domestic income ¹	17,470.9	19,134.5	1,663.6	1.8	17,467.3	19,230.7	1,763.4	1.9	99.8	0.1
64	Average of GDP and GDI ²	17,307.0		1,871.3	2.1	17,305.2		1,937.2	2.1	65.9	0.0
65	Final sales of domestic product	17,062.8		2,120.4	2.4	1	19,226.6		2.4	43.3	0.0
66	Gross domestic purchases	17,757.1		2,346.0	2.5		20,099.6		2.5	-3.5	0.0
67	Gross national product	17,363.8		2,151.7	2.4	1	19,509.6		2.4	-5.9	0.0
68	Disposable personal income ³		15,090.9	2,001.2	2.9	13,089.1		1,875.5	2.7	-125.7	-0.2

- 1. Gross domestic income deflated by the implicit price deflator for gross domestic product.
- 2. The arithmetic average of gross domestic product and of gross domestic income, deflated by the implicit price deflator for GDP.
- 3. Disposable personal income deflated by the implicit price deflator for personal consumption expenditures.



Table A8. Revisions to Real GDP, Expanded Detail, Over the Period 2009Q2 – 2019Q4 [Billions of chained dollars]

			Previously chained (20			Revis	sed chaine	d (2012) d	ollars		ion in inge
Line	Real GDP and its major components			Chan 2009Q2 -	ge for - 2019Q4				ge for - 2019Q4		Percent change
	major components	2009 Q2	2019 Q4	Dollar	Percent (annual rate)	2009 Q2	2019 Q4	Dollar	Percent (annual rate)	Dollar	(percent- age points)
1	Gross domestic product	15,134.1	19,222.0	4,087.9	2.3	15,134.1	19,254.0	4,119.8	2.3	32.0	0.0
2	Personal consumption expenditures	10,417.3	13,413.8	2,996.5	2.4	10,417.3	13,353.7	2,936.4	2.4	-60.1	0.0
3	Goods	3,359.6	4,814.7	1,455.0	3.5	3,359.6	4,811.8	1,452.2	3.5	-2.9	0.0
4	Durable goods	954.0	1,806.1	852.1	6.3	954.0	1,811.7	857.7	6.3	5.6	0.0
5	Motor vehicles and parts	337.0	554.8	217.9	4.9	337.0	539.2	202.3	4.6	-15.6	-0.3
6	Furnishings and durable household equipment	222.2	411.6	189.5	6.0	222.2	417.3	195.1	6.2	5.7	0.2
7	Recreational goods and vehicles	238.2	588.3	350.1	9.0	238.2	613.0	374.8	9.4	24.7	0.4
8	Other durable goods	159.0	267.2	108.2	5.1	159.0	263.7	104.7	4.9	-3.5	-0.2
9	Nondurable goods	2,413.7	3,025.7	612.0	2.2	2,413.7	3,018.2	604.5	2.2	-7.5	0.0
10	Food and beverages purchased for off-premises consumption	822.9	995.8	172.9	1.8	822.9	987.1	164.2	1.7	-8.8	-0.1
11	Clothing and footwear	314.8	412.8	98.0	2.6	314.8	418.0	103.2	2.7	5.2	0.1
12	Gasoline and other energy goods	440.0	446.5	6.5	0.1	440.0	441.6	1.6	0.0	-4.9	-0.1
13	Other nondurable goods	840.4	1,152.3	312.0	3.1	840.4	1,152.5	312.2	3.1	0.2	0.0
14	Services	7,057.5	8,639.1	1,581.6	1.9	7,057.5	8,584.9	1,527.3	1.9	-54.3	0.0
15	Household consumption expenditures (for services)	6,775.2	8,283.2	1,508.0	1.9	6,775.2	8,237.0	1,461.8	1.9	-46.2	0.0
16	Housing and utilities	1,938.4	2,193.4	255.0	1.2	1,938.4	2,199.1	260.6	1.2	5.6	0.0
17	Health care	1,736.6	2,275.9	539.2	2.6	1,736.6	2,260.2	523.5	2.5	-15.7	-0.1
18	Transportation services	318.1	443.9	125.8	3.2	318.1	447.8	129.7	3.3	3.9	0.1
19	Recreation services	407.5	517.0	109.5	2.3	407.5	506.7	99.2	2.1	-10.3	-0.2
20	Food services and accommodations	654.4	865.9	211.5	2.7	654.4	847.0	192.6	2.5	-18.9	-0.2
21	Financial services and insurance	816.5	865.6	49.1	0.6	816.5	865.8	49.3	0.6	0.1	0.0
22	Other services	904.4	1,142.7	238.2	2.3	904.4	1,130.5	226.1	2.1	-12.2	-0.2
23	Final consumption expenditures of nonprofit institutions serving households (NPISHs)	283.3	357.1	73.8	2.2	283.3	349.5	66.2	2.0	-7.6	-0.2
24	Gross output of nonprofit institutions	1,146.6	1,437.9	291.3	2.2	1,146.6	1,422.1	275.5	2.1	-15.8	-0.1
25	Less: Receipts from sales of goods and services by nonprofit institutions	864.2	1,082.7	218.4	2.2	864.2	1,074.9	210.7	2.1	-7.7	-0.1
26	Gross private domestic investment	1,872.3	3,363.4	1,491.1	5.7	1,872.3	3,413.3	1,541.0	5.9	49.9	0.2
27	Fixed investment	2,073.9	3,325.9	1,252.0	4.6	2,073.9	3,387.2	1,313.3	4.8	61.3	0.2
28	Nonresidential	1,693.2	2,725.7	1,032.5	4.6	1,693.2	2,781.5	1,088.3	4.8	55.7	0.2
29	Structures	509.0	500.1	-8.8	-0.2	509.0	545.1	36.2	0.7	45.0	0.9



Table A8. Revisions to Real GDP, Expanded Detail, Over the Period 2009Q2 – 2019Q4 [Billions of chained dollars]

			Previously hained (20	•		Revis	ed chaine	d (2012) d	ollars	Revision in change	
Line	Real GDP and its major components	2000	2010	Chan; 2009Q2 -	ge for - 2019Q4	2000	2010		ge for - 2019Q4		Percent change
	major components	2009 Q2	2019 Q4	Dollar	Percent (annual rate)	2009 Q2	2019 Q4	Dollar	Percent (annual rate)	Dollar	(percent- age points)
30	Equipment	627.8	1,255.6	627.8	6.8	627.8	1,258.0	630.2	6.8	2.4	0.0
31	Information processing equipment	238.2	516.5	278.2	7.6	238.2	492.9	254.7	7.2	-23.6	-0.4
32	Computers and peripheral equipment	78.5	132.4	53.9	5.1	78.5	134.4	55.9	5.3	2.0	0.2
33	Other	159.8	385.7	225.9	8.8	159.8	358.3	198.5	8.0	-27.4	-0.8
34	Industrial equipment	163.4	237.2	73.8	3.6	163.4	245.3	81.9	3.9	8.1	0.3
35	Transportation equipment	63.3	271.1	207.8	14.9	63.3	283.0	219.7	15.3	11.9	0.4
36	Other equipment	161.9	248.1	86.2	4.2	161.9	248.5	86.6	4.2	0.4	0.0
37	Intellectual property products	568.6	982.0	413.4	5.3	568.6	985.2	416.5	5.4	3.1	0.1
38	Software	209.5	470.3	260.8	8.0	209.5	461.8	252.3	7.8	-8.5	-0.2
39	Research and development	297.1	433.7	136.7	3.7	297.1	445.3	148.2	3.9	11.6	0.2
40	Entertainment, literary, and artistic originals	63.5	86.7	23.2	3.0	63.5	84.3	20.8	2.7	-2.4	-0.3
41	Residential	380.4	603.1	222.7	4.5	380.4	610.5	230.1	4.6	7.4	0.1
42	Change in private inventories	-228.3	13.1	241.4		-228.3	-1.1	227.3		-14.1	
43	Farm	-9.5	-7.7	1.8		-9.5	-15.6	-6.1		-7.9	
44	Nonfarm	-215.3	19.0	234.3		-215.3	11.5	226.8		-7.5	
45	Net exports of goods and services	-445.2	-900.7	-455.4		-445.2	-861.5	-416.2		39.2	
46	Exports	1,707.9	2,536.4	828.5	3.8	1,707.9	2,557.8	850.0	3.9	21.5	0.1
47	Goods	1,140.2	1,782.3	642.1	4.3	1,140.2	1,786.8	646.6	4.4	4.5	0.1
48	Services	566.9	758.6	191.7	2.8	566.9	774.0	207.1	3.0	15.4	0.2
49	Imports	2,153.1	3,437.1	1,283.9	4.6	2,153.1	3,419.3	1,266.2	4.5	-17.7	-0.1 0.0
50 51	Goods Services	1,738.0 411.4	2,861.5 570.4	1,123.6 159.1	4.9 3.2	1,738.0 411.4	2,872.2 546.5	1,134.3 135.1	4.9 2.7	10.7 -24.0	-0.5
52	Government consumption expenditures and gross investment	3,313.2	3,331.1	17.9	0.1	3,313.2	3,337.5	24.3	0.1	6.4	0.0
53	Federal	1,289.7	1,295.1	5.4	0.0	1,289.7	1,301.1	11.5	0.1	6.1	0.1
54	National defense	836.4	783.3	-53.1	-0.6	836.4	797.1	-39.3	-0.5	13.8	0.1
55	Consumption expenditures	654.5	618.7	-35.8	-0.5	654.5	623.0	-31.6	-0.5	4.2	0.0
56	Gross investment	181.7	165.0	-16.7	-0.9	181.7	174.8	-6.9	-0.4	9.8	0.5
57	Nondefense	453.3	511.5	58.2	1.2	453.3	504.1	50.8	1.0	-7.4	-0.2
58	Consumption expenditures	341.4	381.3	39.9	1.1	341.4	366.8	25.4	0.7	-14.5	-0.4
59	Gross investment	112.0	130.2	18.1	1.4	112.0	137.7	25.7	2.0	7.5	0.6
60	State and local	2,024.9	2,035.0	10.1	0.0	2,024.9	2,035.6	10.7	0.1	0.6	0.1
61	Consumption expenditures	1,637.6	1,662.8	25.2	0.1	1,637.6	1,659.2	21.6	0.1	-3.6	0.0
62	Gross investment	387.3	372.1	-15.2	-0.4	387.3	376.4	-10.9	-0.3	4.3	0.1
			40	Addenda			40.55	465			
63	Gross domestic income ¹	1	19,134.5	4,190.3	2.4	14,946.5		4,284.3	2.4	93.9	0.0
64	Average of GDP and GDI ²		19,178.2	4,139.1	2.3	15,040.3		4,202.1	2.4	63.0	0.1
65	Final sales of domestic product		19,183.2	3,839.4	2.1	15,343.9		3,882.7	2.2	43.3	0.1
66	Gross domestic purchases		20,103.1	4,514.3	2.5	15,588.8		4,510.9	2.4	- 3.5	-0.1
67	Gross national product		19,515.5	4,258.2	2.4	15,257.3		4,252.3	2.4	-5.9	0.0
68	Disposable personal income ³	11,689.8	15,090.9	3,401.1	2.5	11,689.5	14,964.5	3,275.1	2.4	-126.0	-0.1

- 1. Gross domestic income deflated by the implicit price deflator for gross domestic product.
- 2. The arithmetic average of gross domestic product and of gross domestic income, deflated by the implicit price deflator for GDP.
- 3. Disposable personal income deflated by the implicit price deflator for personal consumption expenditures.



Table B1. Revisions to the Chain-Type Price Indexes Over the Period 2014–2019

		Inc	dex numbers (2012=10	00)	
Line	Chain-type price indexes	2014	2019	Percent change for 2014 – 2019 (annual rate)	Revision in percent change (percentage points)
1	Gross domestic product	103.647	112.318	1.6	0.0
2	Less: Exports of goods and services	100.272	98.751	-0.3	0.0
3	Plus: Imports of goods and services	97.854	89.986	-1.7	0.0
4	Equals: Gross domestic purchases	103.138	110.329	1.4	0.0
5	Personal consumption expenditures	102.830	109.851	1.3	0.0
6	Goods	98.920	94.785	-0.9	0.0
7	Durable goods	95.429	86.463	-2.0	0.0
8	Nondurable goods	100.599	99.212	-0.3	0.0
9	Services	104.804	117.744	2.4	0.1
10	Gross private domestic investment	102.922	108.998	1.2	0.0
11	Fixed investment	103.172	109.799	1.3	0.0
12	Nonresidential	101.469	104.256	0.5	-0.1
13	Structures	107.198	118.709	2.1	-0.4
14	Equipment	99.169	97.888	-0.3	0.0
15	Intellectual property products	100.791	103.683	0.6	-0.1
16	Residential	111.118	134.182	3.8	-0.1
17	Change in private inventories				
18	Government consumption expenditures and gross investment	104.435	113.439	1.7	0.0
19	Federal	102.632	111.110	1.6	-0.1
20	National defense	102.056	109.256	1.4	0.0
21	Nondefense	103.593	114.014	1.9	-0.2
22	State and local	105.645	114.969	1.7	0.0
		Addenda			
23	Gross domestic purchases excluding food and energy	103.373	111.746	1.6	0.0
24	Gross national product	103.635	112.279	1.6	0.0
25	PCE excluding food and energy	103.122	111.875	1.6	0.0
26	Market-based PCE	102.079	107.487	1.0	0.0
27	Market-based PCE excluding food and energy	102.284	109.409	1.4	0.0



Table B2. Revisions to the Chain-Type Price Indexes Over the Period 2014 Q4–2019 Q4

		Inc	dex numbers (2012=10	00)	B. 11
Line	Chain-type price indexes	2014Q4	2019Q4	Percent change for 2014 Q4 – 2019 Q4 (annual rate)	Revision in percent change (percentage points)
1	Gross domestic product	104.078	112.989	1.7	0.0
2	Less: Exports of goods and services	98.812	98.350	-0.1	0.0
3	Plus: Imports of goods and services	95.942	89.426	-1.4	0.0
4	Equals: Gross domestic purchases	103.431	110.925	1.4	0.0
5	Personal consumption expenditures	102.992	110.529	1.4	0.0
6	Goods	97.913	94.817	-0.6	0.1
7	Durable goods	94.510	85.774	-1.9	0.0
8	Nondurable goods	99.548	99.673	0.0	0.0
9	Services	105.570	118.781	2.4	0.1
10	Gross private domestic investment	103.617	109.287	1.1	-0.1
11	Fixed investment	103.764	110.099	1.2	-0.1
12	Nonresidential	101.930	104.342	0.5	-0.1
13	Structures	109.460	119.668	1.8	-0.4
14	Equipment	99.148	97.722	-0.3	0.0
15	Intellectual property products	100.667	103.606	0.6	-0.2
16	Residential	112.320	135.468	3.8	0.0
17	Change in private inventories				
18	Government consumption expenditures and gross investment	104.829	114.022	1.7	-0.1
19	Federal	103.085	111.281	1.5	-0.2
20	National defense	102.355	109.741	1.4	-0.1
21	Nondefense	104.289	113.691	1.7	-0.3
22	State and local	106.003	115.811	1.8	0.0
		Addenda			
23	Gross domestic purchases excluding food and energy	103.896	112.342	1.6	0.0
24	Gross national product	104.058	112.950	1.7	0.0
25	PCE excluding food and energy	103.646	112.568	1.7	0.1
26	Market-based PCE	102.086	108.070	1.1	0.0
27	Market-based PCE excluding food and energy	102.681	109.993	1.4	0.0



Table C. Changes from Preceding Period in Real Gross Domestic Product and Real Gross Domestic Income: Annually, 2014–2019, and Quarterly, 2014 Q4–2019 Q4

Veer		Chained (2012) dollars	;		Percent change		Difference
Year	GDP	GDI ¹	Average	GDP	GDI	Average	GDP-GDI
2014	16,912.0	17,188.6	17,050.3	2.5	3.2	2.9	-0.7
2015	17,432.2	17,659.0	17,545.6	3.1	2.7	2.9	0.4
2016	17,730.5	17,817.7	17,774.1	1.7	0.9	1.3	0.8
2017	18,144.1	18,266.1	18,205.1	2.3	2.5	2.4	-0.2
2018	18,687.8	18,740.4	18,714.1	3.0	2.6	2.8	0.4
2019	19,091.7	19,080.2	19,085.9	2.2	1.8	2.0	0.4

^{1.} Gross domestic income deflated by the implicit price deflator for gross domestic product.

0		Chained (2012) dollars	5		Percent change		Difference
Quarter	GDP	GDI ¹	Average	GDP	GDI	Average	GDP-GDI
2014Q4	17,143.0	17,467.3	17,305.2	2.3	3.4	2.8	-1.1
2015Q1	17,305.8	17,590.1	17,447.9	3.8	2.8	3.3	1.0
2015Q2	17,422.8	17,653.5	17,538.2	2.7	1.5	2.1	1.2
2015Q3	17,486.0	17,688.5	17,587.2	1.5	0.8	1.1	0.7
2015Q4	17,514.1	17,704.5	17,609.3	0.6	0.4	0.5	0.2
2016Q1	17,613.3	17,801.1	17,707.2	2.3	2.2	2.2	0.1
2016Q2	17,668.2	17,726.9	17,697.5	1.3	-1.7	-0.2	3.0
2016Q3	17,764.4	17,826.3	17,795.4	2.2	2.3	2.2	-0.1
2016Q4	17,876.2	17,917.6	17,896.9	2.5	2.1	2.3	0.4
2017Q1	17,977.3	18,084.6	18,030.9	2.3	3.8	3.0	-1.5
2017Q2	18,054.1	18,233.8	18,143.9	1.7	3.3	2.5	-1.6
2017Q3	18,185.6	18,309.1	18,247.4	2.9	1.7	2.3	1.2
2017Q4	18,359.4	18,437.6	18,398.5	3.9	2.8	3.4	1.1
2018Q1	18,530.5	18,601.5	18,566.0	3.8	3.6	3.7	0.2
2018Q2	18,654.4	18,636.7	18,645.6	2.7	0.8	1.7	1.9
2018Q3	18,752.4	18,846.9	18,799.6	2.1	4.6	3.3	-2.5
2018Q4	18,813.9	18,876.3	18,845.1	1.3	0.6	1.0	0.7
2019Q1	18,950.3	18,979.5	18,964.9	2.9	2.2	2.6	0.7
2019Q2	19,020.6	19,036.1	19,028.3	1.5	1.2	1.3	0.3
2019Q3	19,141.7	19,075.1	19,108.4	2.6	0.8	1.7	1.8
2019Q4	19,254.0	19,230.7	19,242.4	2.4	3.3	2.8	-0.9

^{1.} Gross domestic income deflated by the implicit price deflator for gross domestic product.



Table D. Revisions to Cyclical Fluctuations in Real Gross Domestic Product, 1948–2019

Contractions									
P. 11.1	(Average annual	(Percentage points, annual rate)	(Percent change;	(Percentage points, not annual rate)					
Period	rate of change; in percent)	Revision in percent change	not annual rate)	Revision in percent change					
1948 Q4 – 1949 Q4	-1.5		-1.5						
1953 Q2 – 1954 Q2	-2.4		-2.4						
1957 Q3 – 1958 Q2	-3.9		-3.0						
1960 Q2 - 1961 Q1	-0.2		-0.1						
1969 Q4 – 1970 Q4	-0.2		-0.2						
1973 Q4 – 1975 Q1	-2.5		-3.1						
1980 Q1 – 1980 Q3	-4.3		-2.2						
1981 Q3 – 1982 Q4	-2.0		-2.5						
1990 Q3 – 1991 Q1	-2.7		-1.4						
2001 Q1 – 2001 Q4	0.6		0.4						
2007 Q4 – 2009 Q2	-2.7		-4.0						

Note: Periods of contraction and expansion reflect business cycle dates as determined by the National Bureau of Economic Research.

Expansions										
Period	(Average annual	(Percentage points, annual rate)	(Percent change;	(Percentage points, not annual rate)						
renou	rate of change; in percent)	Revision in percent change	not annual rate)	Revision in percent change						
1949 Q4 – 1953 Q2	7.6		29.3							
1954 Q2 – 1957 Q3	4.0		13.7							
1958 Q2 – 1960 Q2	5.5		11.4							
1961 Q1 – 1969 Q4	4.9		51.9							
1970 Q4 – 1973 Q4	5.1		16.1							
1975 Q1 – 1980 Q1	4.3		23.2							
1980 Q3 – 1981 Q3	4.3		4.3							
1982 Q4 – 1990 Q3	4.3		38.2							
1991 Q1 – 2001 Q1	3.6		42.6							
2001 Q4 – 2007 Q4	2.9		18.7							
2009 Q2 – 2019 Q4	2.3	0.0	27.2	0.2						

Note: Periods of contraction and expansion reflect business cycle dates as determined by the National Bureau of Economic Research.